











17. (Currently Amended) A waveguide-type optical device as claimed in claim 14, wherein:

the support member is one of a rectangular block, an L-shaped block, and a cylindrical block, and the block is made of one of glass, ceramics, and plastics; and

height  $h$  and width  $I$  of the block, and length  $s$  of a protruding portion of the ~~thin and~~ surface-normal active optical device, which protrudes from the block, have a relationship of " $I/h > s/I$ " by which the ~~thin and~~ surface-normal active optical device does not fall when the device supported by the support member is put on the surface of the substrate in an inclined position.

18. (Currently Amended) A waveguide-type optical device as claimed in claim 16, wherein:

the ~~thin and~~ surface-normal active optical device has electrodes;

the support member is a rectangular block, and L-shaped electrodes are formed on the block in a manner such that the L-shaped electrodes lie on two adjacent faces of the block, where the faces include the top face of the block; and

the electrodes of the ~~thin and~~ surface-normal active optical device are respectively connected to the electrodes of the block attached to the device, thereby extending the electrodes of the device to the top face of the block.

19. (Currently Amended) A waveguide-type optical device as claimed in claim 14, wherein the ~~thin and~~ surface-normal active optical device is one of:

a PbS optical detector formed on a glass plate or an a-Si (amorphous silicon) optical detector;

an optical detector obtained by thinning a semiconductor device;











putting the device supported by the support member on the surface of the substrate in an inclined position, so as to prevent the device from falling onto the substrate;

sliding the device on the surface of the substrate towards the trench; and

making the device fall into the trench and fixing the inserted device.

28. (Currently amended) A manufacturing method as claimed in claim 27, wherein in the step of sliding the device on the surface of the substrate, both the support member and an end of the ~~thin~~ and surface-normal active optical device contact the surface of the substrate.

29. (Currently amended) A manufacturing method as claimed in claim 27, wherein in the step of making the device fall into the trench, when the ~~thin~~ and surface-normal active optical device reaches the position of the trench, an end of the device contacts a wall surface of the trench and the ~~thin~~ and surface-normal optical device bends and falls into the trench.

30. (Currently amended) A manufacturing method as claimed in claim 24, wherein:

the ~~thin~~ and surface-normal active optical device has electrodes; and

the support member is a rectangular block,

the method further comprising the steps of:

forming L-shaped electrodes on the block in a manner such that the L-shaped electrodes lie on two adjacent faces of the block, where the faces include the top face of the block; and

respectively connecting the electrodes of the ~~thin~~ and surface-normal active optical device to the electrodes of the block attached to the device, thereby extending the electrodes of the device to the top face of the block.

31. (New) A waveguide-type optical device as claimed in claim 1, wherein the width of the trench is equal to or less than 300  $\mu\text{m}$ .

32. (New) A manufacturing method as claimed in claim 7, wherein the width of the trench is equal to or less than 300  $\mu\text{m}$ .

33. (New) A waveguide-type optical device as claimed in claim 14, wherein the optical waveguides or optical fibers provided on the substrate are expanded core fibers.